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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/621,418	07/18/2003	Patrice Onno	01807.002407.	2799
	7590 01/15/200 CELLA HARPER &	EXAMINER		
30 ROCKEFELLER PLAZA			YALEW, FIKREMARIAM A	
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

- 4	Application No.	Applicant(s)			
Office Action Summany	10/621,418	ONNO ET AL.			
Office Action Summary	Examiner	Art Unit			
	Fikremariam Yalew	2136			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period was realiure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tir will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communication. ED (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on 11/09	9/2007				
2a) This action is FINAL . 2b) ⊠ This	This action is FINAL . 2b)⊠ This action is non-final.				
•	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is				
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims					
4) Claim(s) 1-4,6-21,23-35 is/are pending in 4a) Of the above claim(s) is/are withdraw 5) Claim(s) is/are allowed. 6) Claim(s) 1-4,6-21,23-35 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or	vn from consideration.				
Application Papers					
9) The specification is objected to by the Examiner.					
10)⊠ The drawing(s) filed on <u>18 July 2003</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).					
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.					
Priority under 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
Attachment(s) 1) Notice of References Cited (PTO-892)	4) Interview Summary	(PTO-413)			
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail D	ate			
3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	5) Notice of Informal F 6) Other:	ratent Application			

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DETAILED ACTION

- 1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 11/09/2007 has been entered.
- 2. Claims 1,18 have been amended. Claims 5,22 are canceled. Claims 1-4,6-21,23-35 are pending.

Response to Arguments

3. Applicant's arguments filed on 11/09/2007 have been fully considered but they are not persuasive. The applicant argues that the combination of Kayama and Wee do not disclose encoding the signal in a format comprising header data specific to each region and which comprise at least one part representing the amplitude of the data of the region considered. The examiner disagree and points out the combination of Kayama and Wee disclose encoding the signal in a format comprising header data specific to each region and which comprise at least one part representing the amplitude of the data of the region considered (See Fig 4 steps 301,401-402 and 0022 (i.e., encoder, frequency band separator, each signals have a specific frequency band)). The applicant argues that the combination of Kayama and Wee do not disclose modifying among the header data specific to at least one region considered. The examiner disagree and points out that the combination of Kayama and Wee disclose modifying among the header data

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specific to at least one region of the signal, the part of the header data representing the amplitude of the data of the region considered (See col 16 line 56 through col 17 line 19 and Fig 20, Fig 18B(i.e. header data portion includes information that is used by transcoder to transcode the scalable encoded progressively encrypted video data portion& decrypted packet header)). The applicant also argues the combination of Kayama and Wee do not disclose "wherein the modifying step includes making use of at least one transformation key Ku. The examiner disagree and points out that the combination of Kayama and Wee disclose wherein the modifying step includes making use of at least one transformation key Ku(See Fig 6 step606(i.e., encrypt scalable video data)). The examiner also point out that if encryption exist that means there is a transformation of key there because it well known in the art that using key to encrypt and decrypt data.

Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claims 1-4,6-21,23-35 are rejected under 35 U.S.C. 103(a) as being unpatentable over Katayama et al (hereinafter referred as Katayama) US Pub No 20020027994 in view of Wee(hereinafter referred as Wee) US 7,184,548 B2.
- 6. As per claim 1,18,28,30,32,34: Katayama teaches a method/apparatus/computer program/device of a digital signal comprising the steps of: decomposing the signal into several

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regions each containing digital data (0022(i.e., separating the audio signal)); encoding the signal in a format comprising header data specific to each region and which comprise at least one part representing the amplitude of the data of the region considered (See 0022 (i.e. each signal have specific frequency band) and Fig 4a steps 401,402);

Katayma does not explicitly teach modifying among the header data specific to at least one region of the signal, the part of the header data representing the amplitude of the data of the region considered.

However Wee teaches modifying among the header data specific to at least one region of the signal, the part of the header data representing the amplitude of the data of the region considered (See col 16 line 56 through col 17 line 19 and Fig 20); wherein said modifying step includes making use of at least one transformation key Ku(See Wee 0047-0048,0118 and Fig 5 step 503)

Therefore it would have been obvious to one ordinary skill in the art at the time the invention was made to modify the teaching method of Katayam to include modifying among the header data specific to at least one region of the signal, the part of the header data representing the amplitude of the data of the region considered and modifying step includes making use of at least one transformation key Ku. This modification would have been obvious because a person having ordinary skill in the art would have been motivated to do so, as suggested by, (See Wee col 3 lines 42-44) inorder to provide secure and scalable encoding method for use in streaming of data.

7. As claim 2,19: the combination of Katayma and Wee teach a method wherein the digital data of the signal are digital samples representing physical quantities, and (See Wee col 5 lines 54-67), the part of the header data representing the amplitude of the samples of the region

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considered provides a number of bitplanes according to which the amplitudes of the samples are encoded based on the difference between (1)a number of so-called reference bitplanes, depending on the signal and which is deduced from information present in the signal and(2)a number of zero bitplanes which is contained in said part of the header data(See Wee col 16 line 56 through col 17 line 19 and col 7 lines 31-47,col 8 lines 39-61).

- 8. As per claim 3,20: the combination of Katayma and Wee teach a method wherein said modifying step includes providing for modifying the number of zero bitplanes (See Wee col 16 line 56 through col 17 line 19 and col 7 lines 31-47,col 8 lines 39-61)
- 9. As per claim 4, 21: the combination of Katayma and Wee teach a method wherein said modifying step includes providing for increasing the number of zero bitplanes (See Wee col 16 line 56 through col 17 line 19 and col 7 lines 31-47, col 8 lines 39-61).
- 10. As per claim 6,15,23: the combination of Katayma and Wee teach a method wherein the transformation key Ku depends on the at least one region considered. (See Katayma 0047-0048,0118 and Fig 5 step 503).
- 11. As per claim 7,16,24: the combination of Katayma and Wee teach a method wherein said modifying step involves in particular the generation of a pseudo-random sequence based on the transformation key Ku (See Katayma 0047-0048,0118 and Fig 5 step 503).
- 12. As per claim 8,17,25: the combination of Katayma and Wee teach a method wherein it comprises a step of transmitting the transformation key Ku (See Katayma 0047-0048,0118 and Fig 5 step 503).
- 13. As per claim 9: the combination of Katayma and Wee teach a method wherein it comprises a step of transmitting the signal so transformed (See Katayma 0047-0048,0118 and Fig 5 step 503).

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As per claims 10,27,29,31,33,35: Katayma teaches a method/device/computer program of 14. descrambling a digital signal decomposed into a plurality of regions each containing digital data, the signal being encoded in a format comprising header data specific to each region and which comprise at least one part representing the amplitude of the data of the region considered, the method comprising the steps of: receiving the signal of which the part of the header data representing the amplitude of the data of at least one region has undergone a modification before transmission of said signal (See 0022).

Katayma does not explicitly teach modifying in reverse that modified part of the header data in order to restore said unmodified part of the header data of the signal.

However Wee teaches modifying in reverse that modified part of the header data in order to restore said unmodified part of the header data of the signal. (See col 16 line 56 through col 17 line 19 and Fig 20).

Therefore it would have been obvious to one ordinary skill in the art at the time the invention was made to modify the teaching method of Katayam to include modifying in reverse that modified part of the header data in order to restore said unmodified part of the header data of the signal. This modification would have been obvious because a person having ordinary skill in the art would have been motivated to do so, as suggested by, (See Wee col 3 lines 42-44) inorder to provide secure and scalable encoding method for use in streaming of data.

As per claim 11: the combination of Katayma and Wee teach a method wherein the 15. digital data of the signal being digital samples representing physical quantities, (See Wee col 5 lines 54-67) and the part of the header data representing the amplitude of the samples of the region considered provides a modified number of bitplanes according to which the amplitudes of the samples are encoded based on the difference between (1) a number of reference bitplanes,

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depending on the signal and which is deduced from information present in the signal and,(2)a modified number of zero bitplanes which is contained in the part of the header data(See Wee col 16 line 56 through col 17 line 19 and col 7 lines 31-47,col 8 lines 39-61).

- 16. As per claim 12: the combination of Katayma and Wee teach a method wherein said step of reverse modifying provides for modifying the modified number of zero bitplanes(See Wee col 16 line 56 through col 17 line 19 and col 7 lines 31-47,col 8 lines 39-61).
- 17. As per claim 13: the combination of Katayma and Wee teach a method wherein said step of reverse modifying provides for reducing the modified number of zero bitplanes (See Wee col 16 line 56 through col 17 line 19 and col 7 lines 31-47,col 8 lines 39-61).
- 18. As per claim 14: the combination Katayma and Wee teach a method wherein said modifying step includes making use of at least one transformation key Ku (See Katayma 0047-0048,0118 and Fig 5 step 503)
- 19. As per claim 26: the combination of Katayma and Wee teach a device further comprising means for transmitting the signal so scrambled. (See Katayma 0047-0048,0118 and Fig 5 step 503)

Conclusion

20. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. See PTO 892.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Fikremariam Yalew whose telephone number is 5712723852. The examiner can normally be reached on 9-5.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Moazzami Nasser can be reached on 571-272-4195. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Fikremariam Yalew 01/08/2007 FA Art Unit 2136

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